

iH²O INSULATED PIPE



CHILLED WATER iH₂O PRE-INSULATED PIPING (R>2.2)

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL OFF WHITE

SPECIFICATION: SCHEDULE STANDARD

Service Pipe Material:	
Carbon Steel	(k = 46.7 W/m ^o K)
Insulation Material:	
DPE1783R PUR	(k = 0.024 W/m ^o K)
Casing Material:	
Painted Steel	(k = 50 W/m ^o K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Off White--Spiral Wound) --- Outer Diameter (mm)																						Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
					152		178		203		229		254		305		330		400		450		508		610			
		PUR_Thk (mm)	R-Val (m²K/W)		PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)
60.3	2"	STD	3.91	52.5	45.9	2.90	58.9	3.98																			8.2	10.4
73.0	2 1/2"	STD	5.16	62.7	39.5	2.30	52.5	3.28	65.0	4.29																	12.1	15.1
88.9	3"	STD	5.49	77.9			44.6	2.55	57.1	3.46	70.1	4.48															15.3	20.1
114.3	4"	STD	6.02	102.3					44.4	2.41	57.4	3.29	69.9	4.19													20.7	28.9
141.3	5"	STD	6.55	128.2							43.9	2.28	56.4	3.08	81.9	4.85											26.9	39.8
168.3	6"	STD	7.11	154.1									42.9	2.16	68.4	3.75	80.9	4.59									34.9	53.6
219.1	8"	STD	8.18	202.7											43.0	2.08	55.5	2.79	90.5	4.97							49.4	81.7
273.1	10"	STD	9.27	254.6															63.5	3.15	88.5	4.64					69.1	119.9
323.9	12"	STD	9.53	304.8															38.1	1.74	63.1	3.06	92.1	4.72			83.8	156.8
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74			93.3	182.3
406.4	16"	STD	9.53	387.3																			50.8	2.34	101.8	5.12	103.8	221.6
457.0	18"	STD	9.53	437.9																					76.5	3.64	119.8	270.4
508.0	20"	STD	9.53	488.9																					51.0	2.31	129.8	317.6

BLUE BLOCKS DENOTE STANDARD STOCK ITEMS

*Dry mass of insulated pipe = Service pipe mass + PUR insulation mass + Casing mass,

Wet mass of insulated pipe = Dry mass of insulated pipe + Service fluid (water) mass